



RER 9157 “Strengthening implementation of the justified and optimized use of ionizing radiation in medicine”.

# **Regional Training Course**

## **on**

# **Radiation Protection in Therapeutic Nuclear Medicine**

**Hosted by**

National Center of Radiobiology and Radiation Protection (\*)

**10 – 14 March 2025**

Sofia, Bulgaria (\*)

Ref. No: TN-RER9157-2406861

## **Information Sheet**

### **A. Purpose**

The purpose of the event is to train the participants on the latest developments and clinical applications in radiopharmaceutical therapy and the related aspects of radiation protection of patients and staff.

### **B. Working Language(s)**

The working language(s) of the event will be English.

### **C. Deadline for Nominations**

Nominations received after **21 January 2025** will not be considered.

## **D. Project Background**

The objective of project RER9157 is to support implementing good practice and improve radiation protection and safety in nuclear medicine departments in participating Member States. It is designed to assist Member States (MSs) in the European region to enhance radiation protection and safety in medical uses of ionizing radiation through improved implementation of the requirements of the IAEA GSR Part 3. It is focused on strengthening national capacities to effectively implement the related regulatory requirements into practice.

The main goals of the project are based on analysis of the data in the RASIMS 2.0 platform that identified gaps related to the implementation of the requirements.

The key areas to be addressed in the project include a) Justification of medical exposures; b) Optimization of radiation protection of patients including establishment and use of Diagnostic Reference Levels; c) Special attention on radiation protection of paediatric, pregnant, and breastfeeding patients; and d) Prevention of accidental medical exposures.

The project will endeavour to strengthen national mechanisms to achieve improvements on the broad national level. Regional cooperation will provide a platform for developing common approaches and for sharing of experience.

## **E. Expected Outputs**

Participants' level of knowledge about radiation protection of patient and staff in nuclear medicine will be upgraded, to support their future clinical and training activities. Participants will gain knowledge on safety aspects related to introduction and use of newer therapeutic radiopharmaceuticals, along with those used traditionally for treatment. It is expected that after the course, participants initiate such a training programme in respective hospitals and promote such activity in their country. Participants will also contribute in the RER9157 on dissemination of radiation protection actions in their country.

## **F. Scope and Nature**

The purpose of the Course is to provide participants with specialized training on the latest development and clinical applications in radiopharmaceutical therapy and the related aspects of radiation protection of patients and staff. The Course will focus on practical methods for optimization of radiation protection of patients and staff and prevention and management of incidents in the therapeutic nuclear medicine.

The Course will consist of a series of lectures, information exchange among participants, practical sessions in classroom and hospital visits.

## **G. Participation**

The Course is open to 25 participants from TCEU Member States participating in the regional project RER9157 "*Strengthening Implementation of the Justified and Optimized Use of Ionizing Radiation in Medicine*".

Each country is invited to nominate one or two participants meeting the Experience and Qualifications' requirements described in the corresponding paragraph.

## H. Participants' Qualifications and Experience

The Course is open to **senior medical physicists** or **radiation protection officers** who work in nuclear medicine departments practicing radiopharmaceutical therapy with various radiopharmaceuticals, and who are involved in radiation protection training of medical staff. The information provided in the nomination form should demonstrate the participants background and activities related to therapeutic nuclear medicine, including list of therapeutic radiopharmaceuticals used in the department. Preference will be given to member states that have significantly contributed to the related project activities.

The selected participant is expected to disseminate the contents of the training course and provide associated technical material and information to other colleagues in their workplace and country.

As the Course will be conducted in English, participants should have sufficient proficiency to follow lectures and express themselves in this language without difficulty.

Applications failing to clarify compliance to the requirements listed above will be automatically rejected. Nominations without sufficient information regarding the nominee's background and professional experience will not be considered.

## I. Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
  - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
  - b. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
  - c. Search for the relevant technical cooperation event (**EVT2406861**) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

**NOTE:** Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

Should online application submission not be possible, candidates may download the nomination form for the meeting from the IAEA website and submit their applications to their National Authorities. The nomination forms once fully approved can be submitted by e-mail in a PDF format through the official channels via the IAEA Official E-Mail ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) with copy to Mr Katukhov ([A.Katukhov@iaea.org](mailto:A.Katukhov@iaea.org)) and Mr Bru ([Y.Bru@iaea.org](mailto:Y.Bru@iaea.org)).

**NOTE:** A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for candidates over the age of 65 regardless.

## **J. Administrative and Financial Arrangements**

Nominating authorities will be informed in due course of the names of the candidates who have been selected and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station.

## **K. Disclaimer of Liability**

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

## **L. Note for female participants:**

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

# IAEA Contacts

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